

ABSTRACT OF THE DISCLOSURE

A multi-phase separation system utilized to remove contaminants from fluids includes a pre-filtering module for filtering a contaminated fluid to provide a filtered contaminated fluid. A condenser module receives the filtered contaminated fluid and a contaminated gas phase for condensing the contaminated gas phase to a contaminated liquid. A phase reaction chamber converts the filtered contaminated fluid to a contaminated mist wherein the mist is subjected to a low energy, high vacuum environment for providing a first change of phase by separating into a contaminated gas phase and a liquid mist phase. The contaminated gas phase is carried out of the phase reaction chamber by a carrier air. A vacuum pump provides the low energy, high vacuum environment in the phase reaction chamber and delivers the contaminated gas phase to the condenser module for condensation providing a second change of phase.